

ABSTRACT FOR DE 196 10 867

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TI Polyamide moulding materials with improved impact properties etc. - contain thermoplastic polyamide, ABS-type graft rubber and special carboxyl-functionalised olefin copolymer made by radical solid-phase grafting.

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Thermoplastic polyamide (PA) moulding materials (I) contain (A) 59.5-94.5 wt.% thermoplastic PA, (B) 5-40 wt.% graft rubber comprising 95-20 wt.% of a monomer mixture containing 5-85 wt.% 1-4C alkyl (meth)acrylate(s) and/or (meth)acrylonitrile and 95-15 wt.% styrene and/or substituted styrene(s), polymerised in presence of 5-80 wt.% rubber with a Tg of below 0 deg. C, and (C) 0.5-30 wt.% functionalised olefin polymer. Component (C) is a graft copolymer with a content of 0.1-15 wt.% grafted carboxyl monomer, obtained by radical-initiated solid-phase graft copolymerisation at 40-100 deg. C of a mixture of (c1) 30-100 wt.% alpha , beta -unsaturated mono- and/or di-carboxylic acid(s) or anhydride(s) (carboxyl monomer) and (c2) 0-70 wt.% comonomer(s) with no carboxyl or anhydride groups, i.e. vinylaromatics and/or 1-8C alkyl (meth)acrylates and/or 1-4C vinyl esters onto (c3) a homo- and/or (block) co-polymer consisting completely or mainly of olefin units.

USE - Used for the production of injection moulded or extruded products and parts.

ADVANTAGE - Provides modified PA moulding materials with appreciably improved impact properties, especially notched impact resistance in the cold, combined with good mechanical and thermal properties in general, good surface finish and good processing properties.

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